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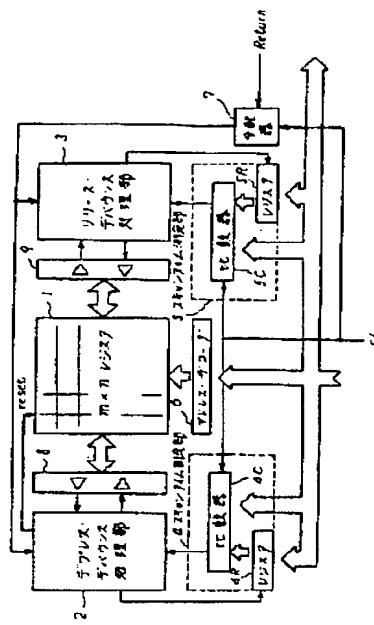
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APPLICANT : YOKOGAWA ELECTRIC CORP;

INVENTOR : FUKAWA MASAHIKO;

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TITLE : KEYBOARD CONTROLLER



ABSTRACT : PURPOSE: To increase the number of keys to be accepted to simplify the control system by confirming a depressed key to set '1' in a corresponding position of an $m \times n$ register and confirming a released key to set '0' to a corresponding position of the $m \times n$ register and referring to this $m \times n$ register to realize the roll over function.

CONSTITUTION: This controller consists of an $m \times n$ register 1, a depress debounce processing part 2, a release debounce processing part 3, scan time measuring parts 4 and 5, an address decoder 6, a distributor 7, and transmission/ reception parts 8 and 9. '1' is always set to the address corresponding to a depressed key in the $m \times n$ register 1, and '0' is always set to the address corresponding to a released key, and the key roll over function is realized on the $m \times n$ register 1. Thus, depression information is held on the $m \times n$ register 1 though plural keys are simultaneously depressed, and the number of keys to be accepted is not limited.

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